

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

7590

04/22/2003

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
1940 DUKE STREET
ALEXANDRIA, VA 22314

EXAMINER

CHEU, CHANGHWA J

ART UNIT CLASS-SUBCLASS

435-345000

1641
DATE MAILED: 04/22/2003

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/740,903 12/21/2000 Hirokazu Ohbayashi 201001US0 6339

TITLE OF INVENTION: ENZYME-PROTEIN COMPLEX

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	07/22/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

(703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

22850

7590

ALEXANDRIA, VA 22314

04/22/2003

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, 1940 DUKE STREET

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO on the date indicated below.

			transmitted	to the USPIO, on the date indicated	below.	
					(Depositor's name)	
					(Signature)	
					(Date)	
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/740,903	12/21/2000	Hirokazu Ohbayashi		201001US0	6339	
TITLE OF INVENTION: EI	NZYME-PROTEIN CO	MPLEX				
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1300	\$300	\$1600	07/22/2003	
-						
EXAMINER		ART UNIT	CLASS-SUBCLASS			
CHEU, CHANGHWA J		1641	435-345000			
1. Change of corresponden CFR 1.363).	ce address or indication	of "Fee Address" (37	2. For printing on the patent the names of up to 3 registe			
☐ Change of corresponde	ence address (or Change	of Correspondence	or agents OR, alternatively,	(2) the name of a		
Address form PTO/SB/12	22) attached.	or correspondence	single firm (having as a mattorney or agent) and the			
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered patent attorneys or agents. If no name			
			is listed, no name will be printed.			
3. ASSIGNEE NAME AND	RESIDENCE DATA TO	O BE PRINTED ON THE	PATENT (print or type)		A	
PLEASE NOTE: Unless a	n assignee is identified b	elow, no assignee data wi	ill appear on the patent. Inclusi	on of assignee data is only appropri	ate when an assignment has	
been previously submitted (A) NAME OF ASSIGNED			cover. Completion of this form SIDENCE: (CITY and STATE		ignment.	
(A) NAME OF ASSIGNE	C.	(B) KE	SIDENCE. (CITT and STATE	OR COUNTRY)		
Please check the appropriate	secionae catagoni or cot	agories (will not be swinter	d on the notant) Dindivis	hual Corporation or other private	group entity	
			ment of Fee(s):	dai Corporation of other private	group entity a government	
4a. The following fee(s) are enclosed:		40. ray	ment of Fee(s).			

☐ A check in the amount of the fee(s) is enclosed. ☐ Issue Fee ☐ Payment by credit card. Form PTO-2038 is attached. ☐ Publication Fee ☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____(enclose an extra copy of this form). ☐ Advance Order - # of Copies Deposit Account Number

Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



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09/740,903	12/21/2000	Hirokazu Ohbayashi	201001US0	6339	
22850 7	590 04/22/2003		EXAMIN	ER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,			CHEU, CHANGHWA J		
P.C. 1940 DUKE STRE	EET		ART UNIT	PAPER NUMBER	
ALEXANDRIA, VA 22314			1641	-	
			DATE MAILED: 04/22/2003		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 300 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 300 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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22850 7.	590 04/22/2003		EXAMIN	ER
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,			CHEU, CHANGHWA J	
P.C. 1940 DUKE STRE	EET		ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22314 UNITED STATES		1641		
		DATE MAILED: 04/22/2003		

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

•	Application No.	Applicant(s)			
	09/740,903 OHBAYASHI ET AL.				
Notice of Allowability	Examiner	Art Unit			
	Jacob Cheu	1641			
		<u> </u>			
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	plication. If not included			
1. This communication is responsive to <u>3/18/2003</u> .					
2. The allowed claim(s) is/are <u>27-48, 50-51, 54-56 (renumber</u>					
3. The drawings filed on are accepted by the Examiner					
4. Acknowledgment is made of a claim for foreign priority unda) All b) Some* c) None of the:	er 35 U.S.C. § 119(a)-(d) or (f).				
 Certified copies of the priority documents have 	been received.				
2. Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •				
Copies of the certified copies of the priority doc	cuments have been received in this	national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* C'ertified copies not received:					
5. Acknowledgment is made of a claim for domestic priority un		ional application).			
(a) The translation of the foreign language provisional ap					
6. Acknowledgment is made of a claim for domestic priority un	der 35 U.S.C. §§ 120 and/or 121.				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of t	this communication to file a reply control that the communication to file a reply control that the control t	omplying with the requirements noted NTH PERIOD IS NOT EXTENDABLE.			
7. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which gives reason	itted. Note the attached EXAMINEF on(s) why the oath or declaration is	R'S AMENDMENT or NOTICE OF deficient.			
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner. (c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No 					
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.					
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s)					
 1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 5 Information Disclosure Statements (PTO-1449), Paper No 7 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4 ⊠ Interview Summ 6⊠ Examiner's Ame	al Patent Application (PTO-152) ary (PTO-413), Paper No. 11 . ndment/Comment ement of Reasons for Allowance			

Application/Control Number: 09/740,903

Art Unit: 1641

DETAILED ACTION

EXAMINER'S AMENDMENT

Entered P

Page 2

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Thomas Cunningham on April 18, 2003. The application has been amended as follows:

Claim 49, 52 and 53 have been canceled.

Claim 51, "that is a kit" has been changed to -- wherein said kit is --.

Reasons for Allowance

- 2. The following is an examiner's statement of reasons for allowance: the prior art neither teaches nor suggests a carrier-enzyme-protein complex where the structure of the said complex comprises the conjugation of the carrier to the enzyme, the enzyme to the protein, but not the protein to the carrier. The closest prior art is Ohbayashi et al. (USP 6252053) where the recited complex does not have the feature of not conjugating the carrier to the protein as the instant claimed invention.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Page 3

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacob Cheu whose telephone number is 703-306-4086. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on 703-305-3399. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4556 for regular communications and 703-308-4556 for After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3399.

Jacob Cheu

Examiner

Art Unit 1641

April 21, 2003

LONG V. LE

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600

04/21/03